

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
1	The modification required the laboratory to spike each soil VOA and BNA sample with the set of DMCs that are used for aqueous samples under OLC03.2.	OLC03.2	Soil	VOA and BNA		X				
2	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus the one additional analyte, hexane (CAS 110543), with a CRQL of 0.5 ug/L.	OLC03.2	Water	VOA			X			
3	The modification required the laboratory to analyze aqueous OLC03.2 Pest/PCB samples at CRQLs that are one-half of those listed in Exhibit C.	OLC03.2	Water	PEST	X					
4	The modification required the laboratory to analyze soil Pest/PCB samples at CRQLs that are one-half of those listed in Exhibit C.	OLC03.2	Soil	PEST	X					
5	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, but at half the present CRQLs.	OLC03.2	Water	PEST	X					
6	For this project, no specific changes were made to the protocols for analyzing samples under the OLC03.2 SOW, however the laboratory was required to analyze a Laboratory Control Sample (LCS) for each SDG in the project.	OLC03.2	Water	VOA						X

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7	The laboratory must analyze aqueous VOA samples as specified in SOW OLC03.2. All samples must be reported from an undiluted sample analysis. If the on-column concentration of any target compound in any sample exceeds the initial calibration range, a new aliquot must be diluted and analyzed. In the event that high concentration target compounds are anticipated, the laboratory shall analyze and report the results from a diluted sample analysis that keeps the concentration of the highest concentration target compound in the upper half of the calibration range, as required by the SOW.	OLC03.2	Water	VOA					X	
8	The modification required the laboratory to analyze aqueous BNA samples as specified in SOW OLC03.2. For any sample in which the concentration of Pentachlorophenol and any of the Polyaromatic Hydrocarbons (PAHs) is determined to be below the CRQL in the non-modified analysis, Single Ion Monitoring analysis shall be conducted.	OLC03.2	Water	BNA					X	

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9	The modification required the laboratory to analyze aqueous BNA samples as specified in Exhibit D SVOA with no modification. For any sample in which the concentration of Pentachlorophenol is determined to be below the CRQL in the non-modified analysis, Single Ion Monitoring analysis shall be conducted. Some samples should only be analyzed for PCP via SIM.	OLC03.2	Water	BNA					X	
10	The modification required the laboratory to analyze samples for the target analytes listed in Exhibit C, plus the one additional semivolatile analyte, 2-chloro-6-fluorophenol (CAS 2040-90-6: Alfa product number: B23303). The laboratory shall strive to achieve as low of a CRQL as feasible.	OLC03.2	Water	BNA			X			
11	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus one additional analyte, 1,2,3-trichloropropane (CAS# 96-18-4). This analyte shall have a CRQL of 0.5 ug/L.	OLC03.2	Water	VOA			X			
12	The modification required the laboratory to analyze volatile samples for the target analytes listed on page C-5, plus two additional analytes, 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 2.0 ug/L, and 1,4-Dioxane-d8 (CAS #17647-74-4) - (Aldrich catalogue number 18,640-6). The deuterated 1,4-dioxane is to be used as a surrogate compound for the volatile analysis.	OLC03.2	Water	VOA			X			

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13	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus the one additional analyte, 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 1.0 ug/L. Single ion monitoring techniques (SIM) are to be used for analysis.	OLC03.2	Water	VOA			X		X	
14	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus the one additional analyte, 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 1.0 ug/L. Single ion monitoring techniques (SIM) are to be used for analysis. For each SDG in which at least one sample is analyzed for 1,4-Dioxane using the SIM technique, one laboratory control sample (LCS) shall be analyzed using the SIM technique.	OLC03.2	Water	VOA			X		X	
15	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus the one additional analyte, 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 2.0 ug/L. Single ion monitoring techniques (SIM) are to be used for analysis. For each SDG in which at least one sample is analyzed for 1,4-Dioxane using the SIM technique, one laboratory control sample (LCS) shall be analyzed using the SIM technique.	OLC03.2	Water	VOA			X		X	

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16	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus the one additional analyte, 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 1.0 ug/L. Single ion monitoring techniques (SIM) are to be used for analysis. Additionally, the laboratory is to review the TIC analysis performed during the original Scan analysis. In particular, the Region is interested in an estimated value for 1,3-butadiene.	OLC03.2	Water	VOA			X		X	
17	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, with the following additional requirements: CRQLs for benzene shall be lowered to a CRQL of 0.2 ug/L (or lower if more convenient for the laboratory), and the CRQL for vinyl chloride shall be lowered to a CRQL of 0.18 ug/L (or lower if more convenient for the laboratory). The samples must be analyzed using a Selected Ion Monitoring (SIM) technique.	OLC03.2	Water	VOA	X				X	
18	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, but at lower CRQLs for Pentachlorophenol (CRQL to 1 ug/L or lower). To achieve this CRQL, a separate analytical run using Selected Ion Monitoring (SIM) technique will have to be used.	OLC03.2	Water	BNA	X				X	

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19	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, but at lower CRQLs for Pentachlorophenol (CRQL to 1 ug/L or lower). To achieve this CRQL, a separate analytical run using Selected Ion Monitoring (SIM) technique had to be used. In addition, for each SDG in which at least one sample is analyzed for Pentachlorophenol using the SIM technique, one laboratory control sample (LCS) was analyzed using the SIM technique.	OLC03.2	Water	BNA	X				X	
20	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, but at lower CRQLs. For the volatile samples, all non-ketone analyte had a CRQL of 0.2 ug/L (Ketone analyte CRQLs will not change). For the semivolatile samples, all CRQLs remained the same except for Pentachlorophenol (changed from 5 ug/L to 1 ug/L). To achieve this CRQL, a separate analytical run using Selected Ion Monitoring (SIM) technique had to be used.	OLC03.2	Water	VOA and BNA	X				X	

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Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
21	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, but at lower CRQLs. For the volatile samples, all non-ketone analytes had a CRQL of 0.2 ug/L (Ketone analytes CRQLs will not change). For the semivolatile samples, all CRQLs remained the same except for Pentachlorophenol and Phenanthrene (changed from 5ug/L to 1 ug/L or lower). To achieve this CRQL, a separate analytical run using Selected Ion Monitoring (SIM) technique had to be used.	OLC03.2	Water	VOA and BNA	X				X	
22	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, with the following additional requirements: Tetrachloroethane (CRQL 5 ug/L), Trichloroethene (CRQL 5 ug/L), cis-1,2-Dichloroethene (CRQL 70 ug/L), trans-1,2-Dichloroethene (CRQL 100 ug/L), and Vinyl Chloride (CRQL 2 ug/L).	OLC03.2	Water	VOA	X					

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23	The modification required the laboratory to analyze aqueous BNA and Pest/PCB samples as specified in SOW OLC03.2. Semivolatile sample extract will be analyzed in two phases; (1) by GC/MS scan technique following the unmodified Statement of Work, and (2) by GC/MS SIM technique following procedures described below. The SIM technique was to be used to achieve a CRQL of 0.04 for the following compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, and Dibenzo(a,h)anthracene. Pesticide/Aroclor analysis was to be performed as described in the unmodified Statement of Work, except that the CRQL for Aroclor 1221 was lowered from 0.4 ug/L to 0.2 ug/L.	OLC03.2	Water	BNA and PEST	X				X	
24	The proposed modification will require the laboratory to analyze samples for the same target analytes listed in Exhibit C, but at lower CRQLs. For the volatile samples, Trichloroethene had a CRQL of 0.20 ug/L, or lower, instead of 0.5 ug/L as written in Exhibit C and Vinyl Chloride had a CRQL of 0.40 ug/L, or lower, instead of 0.5 ug/L as written in Exhibit C. In addition, the adjusted CRQL for non-detected analytes could not exceed the levels identified.	OLC03.2	Water	VOA	X					



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25	The modified analysis protocol involved two stages: (1) all samples were to first be analyzed according to Exhibit D/SVOA with no modification; and (2) all samples were then analyzed using Selected Ion Monitoring (SIM) protocol to achieve CRQLs consistent with the modified CRQLs and analyte list given.	OLC03.2	Water	VOA					X	
26	The modification required the laboratory to analyze for the same target analytes listed in Exhibit C, but with a 24-hour reporting requirement for preliminary results (full data package due within 7 days of receipt at laboratory).	OLC03.2	Water	VOA				X		
27	The modification required the laboratory to analyze aqueous VOA samples as specified in SOW OLC03.2. Three additional analytes, hexane, isopropanol, and 1,4-Dioxane, were added as target analytes at CRQLs of 0.5 ug/L, 25 ug/L, and 1.0 ug/L, respectively.	OLC03.2	Water	VOA			X		X	
28	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, with the following additional analytes: 1,1-dichloropropene (CAS # 563-58-6), 1,2,3-trichloropropane (CAS# 96-18-4), and 1,3-dichloropropane (CAS # 142-28-9). These analytes had a CRQL of 0.5 ug/L.	OLC03.2	Water	VOA			X			

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29	The required modification is a revision of R9AD022603* that required the laboratory to analyze aqueous VOA samples as specified in SOW OLC03.2. The CRQL of 1,2-Dibromoethane was changed from 0.5 ug/L to 0.05 ug/L or lower. An additional analyte, 1,3-Dichloropropane, was added as a target analyte with a CRQL of 0.5 ug/L. *See e-mail from Terry Smith*	OLC03.2	Water	VOA	X		X		X	
30	The modification required the laboratory to analyze aqueous VOA samples as specified in SOW OLC03.2. Two additional analytes, hexane and isopropanol was added as target analytes with CRQLs of 0.5 ug/L and 25 ug/L respectively.	OLC03.2	Water	VOA			X			
31	The modification required the laboratory to analyze aqueous VOA samples as specified in SOW OLC03.2. The following analytes were added to the target analyte list at a CRQL of 0.5 ug/L: 1,1-dichloropropene, 1,2,3-trichloropropane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,3-dichloropropane, n-butylbenzene, n-propylbenzene, and sec-butylbenzene. In addition, the CRQL for 1,2-Dibromoethane was lowered to a CRQL of 0.05 ug/L, or lower. SIM analysis was required.	OLC03.2	Water	VOA	X		X		X	

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32	The modification required the laboratory to analyze aqueous VOA and BNA samples as specified in SOW OLC03.2. For the VOA samples, the two additional analytes, 1,4-Dioxane (CRQL 1.0 ug/L) and 1,4-Dioxane-d8 (used as surrogate compound). For the BNA analysis, 1,4-Dioxane and the deuterated Dioxane were the only required analytes. SIMs were to be used for analysis. The semivolatile analysis was required to be performed in the scan mode.	OLC03.2	Water	VOA and BNA			X			
33	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, with the following additional requirements: 1) The CRQLs for the analytes 1,2,-Dibromoethane (CAS No. 106-93-4) and 1,2-Dibromo-3-Chloropropane (CAS No. 96-12-8) was lowered to a CRQL of 0.02 ug/L. 2) Eight additional analytes were added to the target analyte list: 1,1-dichloropropene (CAS # 563-58-6), 1,2,3-trichloropropane (CAS# 96-18-4), 1,2,4-trimethylbenzene (CAS # 95-63-6), 1,3,5-trimethylbenzene (CAS # 108-67-8), 1,3-dichloropropane (CAS # 142-28-9), n-butylbenzene (CAS # 104-51-8), n-propylbenzene (CAS # 103-65-1), and sec-butylbenzene (CAS # 135-98-8). All of these analytes had a CRQL of 0.5 ug/L with the exception of 1,2,3-trichloropropane, which shall have a required CRQL of 0.02 ug/L.	OLC03.2	Water	VOA	X		X			

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34	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, with the following additional analytes: 1,2,3-trichloropropane (CAS# 96-18-4), and 1,3-dichloropropane (CAS # 142-28-9). These analytes had a CRQL of 0.5 ug/L.	OLC03.2	Water	VOA			X			
35	The modification required the laboratory to analyze aqueous VOA samples as specified in SOW OLC03.2. The CRQL of 1,2-Dibromoethane was changed from 0.5 ug/L to 0.10 ug/L or lower. An additional analyte, 1,3-Dichloropropane, was added as a target analyte with a CRQL of 0.5 ug/L.	OLC03.2	Water	VOA	X		X			
36	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the one additional volatile analyte, ethyl acetate (CAS 141-78-6), and one semivolatile analyte, toluene diisocyanate (CAS 584-84-9). The laboratory was required to establish a reasonable CRQL for each of these analytes, based upon the compound's efficiency by the appropriate method.	OLC03.2	Water	VOA and BNA			X			
37	The modification required the laboratory to analyze aqueous BNA samples as specified in SOW OLC03.2 with an additional compound, carbazole, added as a target compound at a CRQL of 5.0 ug/L.	OLC03.2	Water	BNA			X			

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38	The modified analysis protocol required labs to also analyze each sample for the selected Polyaromatic Hydrocarbon (PAH) listed and Pentachlorophenol using Single Ion Monitoring (SIM) techniques.	OLC03.2	Water	BNA					X	
39	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus two additional analytes, 1,2,4-Trimethylbenzene (CAS 95-63-6), and 1,3,5-Trimethylbenzene (CAS 108-67-8). A CRQL of 0.5 ug/L was required for each analyte.	OLC03.2	Water	VOA			X			
40	The modified analysis protocol required labs to also analyze each sample for the target analytes listed in Exhibit C at the CRQLs as listed in Exhibit C, with the exception that Vinyl Chloride, Chloromethane, Bromomethane, Chloroethane, Trichlorofluoromethane, and Dichlorodifluoromethane be reported at CRQLs of 0.2 ug/L.	OLC03.2	Water	VOA	X					
41	The modification required the laboratory to analyze the aqueous phase of multiphase samples as specified in the SOW. Additionally, the BNA fraction of non-aqueous phase samples were required to be analyzed according to waste dilution protocols of SW 846. Acid cleanup was performed before the PEST fraction of the non-aqueous phase samples is analyzed according to the SOW.	OLM04.2	Multiphase	BNA and PEST		X			X	

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42	The modified analysis protocol required the laboratory to analyze samples for the same target analytes listed on page C-3 of SOW OLM04.2, but at lower CRQLs. The modified CRQL for all non-ketone compounds was 0.5 ug/L. The CRQL for Acetone, 2-Butanone, 4-Methyl-2-pentanone, and 2-Hexanone remained at 10 ug/L.	OLM04.2	Water	VOA	X					
43	The modification required the laboratory to analyze samples for the same target analytes listed on page C-3, plus the one additional analyte, hexane (CAS 110543), with a CRQL of 10.0 ug/L.	OLM04.2	Water and Soil	VOA			X			
44	The modification required the laboratory to analyze samples for the same target analytes listed on page C-5, plus the two additional analytes, Mirex (CAS 2385855) and Kepone (CAS 143500). CRQLs of 330 ug/Kg were required for these analytes.	OLM04.2	Soil	BNA			X			
45	The modified analysis required the laboratory to perform the analysis as written in Exhibit D/SVOA with the exception that 50 grams of sample will be required instead of 30 grams as stipulated in Section 10.1.4.4.1 of Exhibit D/SVOA. The use of 50 grams of sodium sulfate lowered the CRQLs of each of the semivolatile analytes by a factor of approximately 1.67 (example Naphthalene changed from 330 ug/Kg to 200 ug/Kg).	OLM04.2	Soil	BNA	X					

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46	The laboratory must analyze soil and water BNA samples as specified in the SOW. In addition, the modification required the laboratory to obtain a printout of the compound 1,2,3-trimethyl-4-propenyl-naphthalene and search the chromatogram for TIC compounds. Reporting procedures depended on if the compound was found to be present in the sample. In addition, the laboratory was required to perform a vender search for the compound.	OLM04.2	Soil and Water	BNA					X	
47	The modified analysis required the laboratory to (1) perform extraction process for oily waste samples using a procedure similar to the Waste Dilution protocol written in SW 846 Method 3580A, and (2) for both oily waste samples and soil samples, use an additional sample cleanup procedure similar to the sulfuric acid cleanup protocol written in SW 846 method 3665A.	OLM04.2	Oil waste and Soil	PEST					X	
48	The modified analysis required the laboratory to use a sample cleanup technique that follows the general guidelines for Sulfuric acid cleanup as presented in SW 846 method 3665A.	OLM04.2	Soil	PEST					X	

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49	The modified analysis required the laboratory to use sample cleanup and analysis techniques not currently written into OLM04.2. The cleanup techniques to be used should generally follow guidelines for Silica Gel cleanup as presented in SW 846 Method 3630, followed by Sulfuric acid cleanup as presented in SW 846 method 3665A, and the analytical technique should generally follow PCB GC guidelines presented in SW 846 Method 8082.	OLM04.2	Soil	PEST					X	
50	The modification required the laboratory to analyze aqueous BNA samples as specified in SOW OLM04.2. For any sample in which the concentration of Pentachlorophenol and all of the Polyaromatic Hydrocarbon (PAH) is determined to be below the CRQL in the non-modified analysis, Single Ion Monitoring analysis shall be conducted.	OLM04.2	Water	BNA					X	
51	The modification required the laboratory to analyze samples for the target analytes listed in Exhibit C, plus the one additional semivolatile analyte, 2-chloro-6-fluorophenol (CAS 2040-90-6: Alfa product number: B23303). The laboratory shall strive to achieve as low of a CRQL as feasible.	OLM04.2	Soil and Water	BNA			X			



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52	The modification required the laboratory to analyze samples for the target analytes listed in Exhibit C, plus two additional semivolatile analytes, Benzidine (CAS 92-87-5), and 1,2-Diphenylhydrazine (CAS 122-66-7). The laboratory should strive to reach CRQLs of 660 ug/kg for both analytes for the soil samples, and 10 ug/L for water samples.	OLM04.2	Soil and Water	BNA			X			
53	The modified analysis protocol required the laboratory to analyze samples for the same target analytes listed on page C-3, but at lower CRQLs and include Acetonitrile (CAS# 75-05-8) to the volatile target analyte list.	OLM04.2	Water	VOA	X		X			
54	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the following additional compounds: 1,3,5-trichlorobenzene (CAS # 108-70-3), 1,2,3,4-tetrachlorobenzene (CAS # 634-66-2 ), 1,2,4,5-tetrachlorobenzene (CAS # 95-94-3), and pentachlorobenzene (CAS # 608-93-5). The CRQLs for each of these compounds shall be set a 10 ug/L for water samples, and 330 ug/Kg for soil samples. Preliminary results are to be provided, however only the standard Form I's for the original analytes are required to be reported in the 72 hour time frame.	OLM04.2	Soil and Water	BNA			X	X		

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55	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the following additional compounds: 1,3,5-trichlorobenzene (CAS # 108-70-3), 1,2,3,4-tetrachlorobenzene (CAS # 634-66-2 ), 1,2,4,5-tetrachlorobenzene (CAS # 95-94-3), and pentachlorobenzene (CAS # 608-93-5). The CRQLs for each of these compounds shall be set a 10 ug/L for water samples, and 330 ug/Kg for soil samples.	OLM04.2	Soil and Water	BNA			X			
56	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the following additional compounds: 1,2,3-trichlorobenzene, 1,3,5-trichlorobenzene (CAS # 108-70-3), 1,2,3,4-tetrachlorobenzene (CAS # 634-66-2 ), 1,2,4,5-tetrachlorobenzene (CAS # 95-94-3), and pentachlorobenzene ( CAS # 608-93-5). The CRQLs for each of these compounds shall be set a 10 ug/L for water samples, and 330 ug/Kg for soil samples.	OLM04.2	Water	BNA			X			
57	The modified analysis required the laboratory to use a sample cleanup technique that follows the general guidelines for Sulfuric acid cleanup as presented in SW 846 method 3665A. Only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed.	OLM04.2	Soil and Water	PEST				X	X	

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58	The modified analysis required the laboratory to use a sample cleanup technique that follows the general guidelines for Sulfuric acid cleanup as presented in SW 846 method 3665A. Only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed.	OLM04.2	Soil	PEST					X	
59	The modified analysis required the laboratory to use a sample cleanup techniques that follow the guidelines for PCB analysis by SW 846 method 8082 and Sulfuric acid cleanup as presented in SW 846 method 3665A. Because this particular cleanup technique is destructive to certain pesticide compounds only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed and reported.	OLM04.2	Soil and Water	PEST					X	
60	The modified analysis required the laboratory to (1) perform extraction process for oily waste samples using a procedure similar to the Waste Dilution protocol written in SW 846 Method 3580A, and (2) for oily waste samples and soil samples use an additional sample cleanup procedure similar to the sulfuric acid cleanup protocol written in SW 846 method 3665A.	OLM04.2	Oil waste and Soil	PEST					X	

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61	The modified analysis required the laboratory to use a sample cleanup techniques that follow the guidelines for PCB analysis by SW 846 method 8082 and Sulfuric acid cleanup as presented in SW 846 method 3665A. Because this particular cleanup technique is destructive to certain pesticide compounds only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed and reported. For QC purposes, the lab is to use an Aroclor mixture of 1016 and 1260 for Matrix spike and spike duplicate purposes. Required turnaround time is 14 days.	OLM04.2	Soil	PEST					X	
62	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA; and (2) all samples shall then be analyzed using Selected Ion Monitoring (SIM) protocol to achieve CRQLs consistent with the modified CRQLs and analyte list given.	OLM04.2	Soil and Water	BNA					X	
63	The modification required the laboratory to analyze samples for the target analytes listed on page C-8, with the exception that Aroclor -1268 (CAS # 11100144: order from Supelco, Sigma Aldrich, etc) will be substituted for Aroclor - 1221. The CRQL of Aroclor-1268 will be 33 ug/Kg for soil samples and 1.0 ug/L for water samples.	OLM04.2	Soil and Water	PEST			X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
64	The modified analysis required the laboratory to use a sample cleanup technique that is not currently written into OLM04.2. The cleanup technique to be used should follow the general guidelines for Sulfuric acid cleanup as presented in SW 846 method 3665A. This flexibility analysis is to be used in conjunction with the flexibility analysis under Reg4PCB120602 (i.e. aroclor 1268 is to be included as an analyte.).	OLM04.2	Water	PEST					X	
65	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA with no modification; and (2) for any sample in which the concentration of Pentachlorophenol and all of the Polyaromatic Hydrocarbon (PAH) is determined to be below the CRQL in the non-modified analysis, Single Ion Monitoring (SIM) analysis shall be conducted.	OLM04.2	Soil	BNA					X	
66	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the one additional volatile analyte, Acrylonitrile (CAS 107-13-1).	OLM04.2	Soil	VOA			X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
67	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA with no modification, (2) for any sample in which the concentration of Pentachlorophenol and/or atrazine is determined to be below the CRQL in the non-modified analysis, Single Ion Monitoring (SIM) analysis shall be conducted.	OLM04.2	Soil	BNA					X	
68	The modified analysis protocol involved three stages: (1) all samples shall first be analyzed according to Exhibits D/SVOA. For this analysis, the following compounds are to be added to the analyte list: Pyridine (CAS # 110-86-1) Dibenzofuran (CAS # 132-64-9). (2) Samples are then to be analyzed with Selected Ion Monitoring protocol (SIM). The analytes that are required to be analyzed by the SIM protocol and the required CRQLS listed. (3) The laboratory is to pay special attention in the TIC review of the scan analysis for dimethylnaphthalenes.	OLM04.2	Soil	BNA	X		X		X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
69	The modification required the laboratory to analyze per the SOW with lowered maximum acceptable detection levels for Trichloroethene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Dibenzo (a,h) anthracene, Indeno (1,2,3-cd) pyrene and the CRQLs for non-detects shall not exceed the values identified for the soil VOA and BNA compounds indicated.	OLM04.2	Soil	VOA and BNA	X					
70	The laboratory was required to analyze soil BNA samples as specified in SOW OLM04.2. For any sample in which the concentration any of the Polyaromatic Hydrocarbon (PAH) analytes is determined to be below the CRQL in the non-modified analysis, Single Ion Monitoring analysis was conducted to achieve a lower CRQL (ug/Kg) for the following compounds: Benzo(a)anthracene (6200), Benzo(b)fluoranthene (6200), Benzo(a)pyrene (620), Dibenzo(a,h)anthracene (620), and Indeno(1,2,3-cd)pyrene (6200). All sample extracts were first analyzed according to Exhibit D/SVOA with no modification. In addition, for any sample in which the concentration of any of the target Polyaromatic Hydrocarbon (PAH) analytes was determined to be below the required CRQLs listed, Single Ion Monitoring (SIM) analysis was conducted in order to achieve the CRQLs.	OLM04.2	Soil	BNA	X				X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
71	The modified analysis protocol involved two stages: (1) all samples were first analyzed according to Exhibits D/SVOA, and (2) any sample analyzed by the GC/MS scan protocol in which any analyte from the list had a final calculated result qualified as a “U” (not-detected) or a “J” (detected at value below CRQL), and had an associated CRQL greater than the “Soil Protection” levels listed must be analyzed by Single Ion Monitoring techniques (SIM) in order to achieve the CRQL listed for the associated analyte.	OLM04.2	Soil	VOA and BNA					X	
72	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA, and (2) any sample analyzed by the GC/MS scan protocol in which any analyte from the list below has a final calculated result qualified as a “U” (not-detected) or a “J” (detected at value below CRQL), and the adjusted CRQL for that compound is greater than that listed below, must be re-analyzed by using a Single Ion Monitoring techniques (SIM) in order to achieve the desired CRQLs listed for the associated analyte.	OLM04.2	Unknown	BNA					X	



## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
73	The modification required the laboratory to analyze soil and water BNA samples as specified in SOW OLC03.2. One additional analyte, Ametryne, will be added as target analyte at a CRQL of 330 ug/Kg for soil samples and 10 ug/L for water samples.	OLM04.2	Soil and Water	BNA			X			
74	The modification required the laboratory to analyze aqueous VOA samples as specified in SOW OLM04.2 at a volume of 25 mL of sample instead of the normal amount of 5 mL	OLM04.2	Water	VOA					X	
75	The modification required the laboratory to use a sample cleanup technique that is not currently written into OLM04.2 on soil Pest/PCB samples. The cleanup technique to be used should follow the general guidelines for Sulfuric acid cleanup as presented in SW 846 method 3665A. Because this particular cleanup technique is destructive to certain pesticide compounds that are target analytes of OLM04.2, only the list of Aroclors presented in Exhibit C, Section 3 is to be analyzed and reported.	OLM04.2	Soil	PEST/PCBs					X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
76	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the one additional volatile analyte, ethyl acetate (CAS 141-78-6), and one semivolatile analyte, toluene di-isocyanate (CAS 584-84-9). The laboratory is to establish a reasonable CRQL for each of these analytes, based upon the compound's efficiency by the appropriate method.	OLM04.2	Soil	VOA and BNA			X			
77	The modified analysis protocol required labs to analyze for Pentachlorophenol and all of the Polyaromatic Hydrocarbon (PAH) listed in Exhibit C using Single Ion Monitoring (SIM) techniques.	OLM04.2	Soil	BNA					X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
78	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA with no modification; and (2) any sample analyzed by the non-modified protocol, in which the adjusted CRQL for any of the specified Polycyclic Aromatic Hydrocarbons (PAH) is greater than its associated maximum CRQL, must be analyzed by Single Ion Monitoring techniques. Compounds include Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, Benzo(b)fluoranthene, Indeno (1,2,3 cd) pyrene, Benzo (k) fluoranthene which have a Maximum Adjusted CRQL of 500 ug/Kg.	OLM04.2	Soil	BNA	X				X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
79	The modification required the laboratory to analyze soil and rinsate BNA samples as outlined in Exhibit D/SVOA with the only modification being that the compound 1-Methylnaphthalene (CAS# 90-12-0) be added as a target analyte (to be analyzed by GC/MS scan mode), and any sample analyzed by GC/MS scan protocol in which any analyte in the specified list has a final calculated result qualified as “U” or “J” must be analyzed by SIM techniques in order to achieve the specified CRQL for the associated analyte.	OLM04.2	Soil and Water	BNA			X		X	
80	The modification required the laboratory to analyze soil BNA samples under the protocol outlined in OLM04.2 Exhibit D. The proposed modification will also require labs to also analyze each sample for the for the target Polyaromatic Hydrocarbon (PAH) listed in Exhibit C using SIM techniques.	OLM04.2	Soil	BNA					X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
81	The modified analysis protocol required labs to also analyze each sample for the target Polyaromatic Hydrocarbon (PAH) and phenolic compounds listed below using Single Ion Monitoring (SIM) techniques. Each sample will at least have a full scan analysis made following the exact protocol outlined by the OLM04.2 SOW. Any sample containing all of the target SIM compounds at levels equal to or greater than 330 ug/Kg , or any individual SIM compound at a level greater than 1700 ug/Kg will not need to be further analyzed by the SIM protocol.	OLM04.2	Soil	BNA					X	
82	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the one additional analyte, Ametryne (CAS 834-12-8), with a CRQL of 10.0 ug/L.	OLM04.2	Soil and Water	BNA			X			
83	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the one additional volatile analyte, Tetrahydrofuran (CAS 109-99-9). This additional analyte is to be analyzed down to a CRQL of 50.0 ug/L.	OLM04.3	Water	VOA			X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
84	The modification required the laboratory to analyze samples using the current OLM04.3 GC/MS scan technique for semivolatile analytes (with a few minor modifications), and also to analyze the samples for PAH analytes using the Selected Ion Monitoring technique (SIM).	OLM04.3	Water	BNA	X				X	
85	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the following additional compounds: 2,6-dimethylphenol, CAS Number: 576-26-1; 3,4-dimethylphenol, CAS Number: 95-65-8; and 2,3,5,6-tetrachlorophenol, CAS Number: 935-95-5 (with CRQLS $\leq$ 25 ug/L). In addition, the laboratory will analyze and report Pentachlorophenol with a CRQL of 10 ug/L instead of 25 ug/L, add 2,6-dimethylphenol, 3,4-dimethylphenol, and 2,3,5,6-tetrachlorophenol as additional matrix spike and matrix spike duplicate analytes, and prepare and analyze a laboratory fortified blank containing pentachlorophenol at 10 ug/L.	OLM04.3	Water	BNA	X		X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
86	The modification required the laboratory to analyze samples for select PAH compounds. In addition, sample extracts shall be processed through an extra cleanup step involving the use of Silica Gel as a cleanup median. CRQLs lower than those shown in Exhibit C will be required, therefore, the sample extracts must be analyzed using the Selected Ion Monitoring technique (SIM).	OLM04.3	Soil and Water	BNA	X				X	
87	The modification required the laboratory to analyze aqueous VOA samples as specified in SOW OLM04.3 with one additional analyte: 1,2,3-trichloropropane (CAS# 96-18-4) added to the target analyte list. This analyte shall have a CRQL of 10 ug/Kg for the soil samples, and 10 ug/L for the water samples.	OLM04.3	Soil and Water	VOA			X			
88	The modification required the laboratory to analyze samples for the target analytes listed in Exhibit C, with the following exceptions: <ul style="list-style-type: none"> <li>• Methyl methacrylate (CAS 80-62-6) shall be added to the target analyte list.</li> <li>• The mandatory CRQLs listed in Exhibit C are waived to take into account the fact that the sample matrix will be assumed to be high concentration drum liquids.</li> <li>• One additional copy of the entire data deliverables shall be sent to the QATS contractor for a further detailed review of TIC components.</li> </ul>	OLM04.3	Soil - Drum Liquid	VOA			X	X		X

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
89	The modification required the laboratory to analyze samples for the target analytes listed in Exhibit C, but with lower CRQLs for Trichloroethene (CRQL of 1 ug/Kg). This required CRQL is based on a wet weight basis (i.e., they are not corrected for moisture content). For each sample that does not contain Trichloroethene at a concentration level greater than 5 ug/Kg, the sample shall be re-analyzed as a separate billable sample using the SIM technique.	OLM04.3	Soil and Water	VOA	X				X	
90	The modification required the laboratory to analyze samples for the target analytes listed in Exhibit C, but with lower CRQLs for Trichloroethene (CRQL of 1 ug/Kg). This required CRQL is based on a wet weight basis (i.e., they are not corrected for moisture content). For each sample that does not contain Trichloroethene at a concentration level greater than 5 ug/Kg, the sample shall be re-analyzed as a separate billable sample using the SIM technique.	OLM04.3	Soil	VOA	X				X	
91	The modification required the Laboratory to analyze samples for the same target analytes listed in Exhibit C, plus an additional three pesticide compounds: 2,4' - DDD (CAS # 53-19-0), 2,4' - DDE (CAS # 3424-82-6), and 2,4' - DDT (CAS# 789-02-6). These are to be analyzed at the same CRQL as the 4,4' - form of each, DDD, DDE, and DDT.	OLM04.3	Soil and Water	PEST			X			



## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
92	The modification required the laboratory to analyze samples for the same target analytes listed in Exhibit C, plus the following additional VOA compounds: 1,3-dichloropropane (CAS # 142-28-9), 1,2,3-trichlorobenzene, and the following additional BNA compounds: 1,3,5-trichlorobenzene (CAS # 108-70-3), 1,2,3,4-tetrachlorobenzene (CAS # 634-66-2), 1,2,4,5-tetrachlorobenzene (CAS # 95-94-3), and pentachlorobenzene (CAS # 608-93-5). The CRQLs for each of these compounds shall be set a 10 ug/L.	OLM04.3	Water	VOA and BNA			X			
93	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA with no modification; and (2) for any sample in which the concentration of Benzo(a) pyrene is determined to be not detected, or below the adjusted CRQL in the original analysis, must be re-analyzed by the Selected Ion Monitoring (SIM) technique (described below) in such a manner as to achieve an adjusted CRQL of 100 ug/Kg or lower for this one PAH compound.	OLM04.3	Soil	BNA					X	
94	The modification required the laboratory to analyze samples for the target analytes listed on page C-8, and to analyze for twelve additional Polychlorinated Biphenyl congeners:	OLM04.3	Soil and Water	PEST			X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
95	The modification required the laboratory to analyze samples for the target analytes listed on page C-8, with the exception that Aroclor-1268 (CAS # 11100144: order from Supelco, Sigma Aldrich, etc) will be added as an extra analyte. The CRQL for Aroclor 1268 will be 33 ug/Kg for soil samples and 1.0 ug/L for water samples.	OLM04.3	Soil and Water	PEST			X			
96	The modification required the lab to use fish preparation and blending techniques to process fish tissue for BNA and Pest analytical analyses under OLM04.3. Samples shall require both full scan analysis for BNA TCLs and CRQLs and SIM for PAHs. For Pest analysis, three compounds are to be analyzed: DDT, DDD, and DDE.	OLM04.3	Fish	BNA and PEST		X			X	
97	The modification required the laboratory to analyze and report the samples indicated for BNA analysis on the TR/COC for a select group of SVOC PAH compounds and their associated CRQLs.	OLM04.3	Soil	BNA			X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
98	This modified analysis was intended for specific Polyaromatic Hydrocarbon (PAH) compounds with the corrected CRQL kept below the following levels: Benzo(a) anthracene (5600 ug/Kg), Benzo(b) fluoranthene (5700 ug/Kg), Benzo(a) pyrene (560 ug/Kg), and Dibenzo(a,h) anthracene (550 ug/Kg). All sample extracts shall first be analyzed according to Exhibit D/SVOA with no modification. For any sample in which the concentration of any of the target PAH compounds listed below is determined to be not detected, or detected and “J flagged” below the adjusted CRQLs, and the adjusted CRQL is above that listed below, then Single Ion Monitoring (SIM) analysis shall be conducted on the extracts in order to achieve the necessary CRQLs.	OLM04.3	Soil	BNA	X				X	
99	The modification required the laboratory to analyze volatile samples for the target analytes listed in Exhibit C, plus two additional analytes, 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 2.0 ug/L, and 1,4-Dioxane-d8 (CAS #17647-74-4) - (Aldrich catalogue number 18,640-6). The deuterated 1,4-dioxane is to be used as a surrogate compound for the volatile analysis. SIM techniques are to be used for analysis.	OLM04.3	Water	VOA			X		X	

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
100	The modified analysis protocol involved two stages: (1) all samples shall first be analyzed according to Exhibit D/SVOA with no modification; and (2) all samples shall then be analyzed using Selected Ion Monitoring (SIM) protocol to achieve CRQLs consistent with the modified CRQLs and analyte list given.	OLM04.3	Soil	BNA					X	
101	The modification required the laboratory to analyze samples for the same target analytes listed on in Exhibit C, plus three additional analytes, (1) hexane (CAS 110543), with a required CRQL of 2.5 ug/Kg , (2) isopropanol (CAS 67-63-0), with a required CRQL of 125 ug/Kg, and(3) 1,4-Dioxane (CAS 123-91-1), with a required CRQL of 5.0 ug/Kg.	OLM04.3	Soil	VOA			X			
102	The modification will require the laboratory to analyze samples for the same target analytes listed on page C-5, plus the one additional analyte, Retene (CAS 483658). CRQLs of 10.0 ug/L, and 330 ug/Kg will be required for this analyte for water samples and soil samples respectively.	OLM04.3	Soil and Water	BNA			X			

## CLP Organic Modified Analyses

Organic Flex Clause Number	Summary	CLP Analytical Program	Matrix(s) Affected	Fraction(s) Affected	Adjusted Detect. Limit	Non-Routine Matrix	Additional or Different Compounds	Faster Turnaround	Non-CLP Protocol	Other
103	OLM04.3 - For soil samples, the laboratory analyzed BNA samples for all analytes listed in the SOW with one additional compound, Quinoline (CAS # 91-22-5) with a CRQL of 160 ug/Kg. For some soil samples, the laboratory analyzed BNA samples for Pentachlorophenol only. For soil Pesticide/PCB samples, the lab only analyzed for and reported results for the following compounds: DDT, DDD, and DDE. The remaining pesticide compounds, and PCBs were not to be reported. OLC03.2 - For water samples, the laboratory analyzed the samples per the SOW with lower CRQLs for some analytes. For water Pesticide/PCB samples, the laboratory analyzed samples per the SOW except that only the PCB analytes are to be reported on Form 1.	OLM04.3 and OLC03.2	Soil and Water	BNA and PEST	X		X			